### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT			
To:  VOITH FABRICS PATENT GMBH  Sankt Pöltener Str 43 18 C & 6 A G (3.2.4)  D-89522 Heidenheim Patents gieltung  GERMANY  ) 9 Feb. 2006	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
Eri.	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 02/02/2005			
Applicant's or agent's file reference  PF 08583 WO	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/EP2004/051056	International filing date (day/month/year) 08/06/2004			
Applicant	· · · · · · · · · · · · · · · · · · ·			
VOITH FABRICS PATENT GMBH				
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report, however, for more details, see the notes on the accompanying sheet.  Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.  3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for International publication.  The applicant may submit comments on an informat basis on the written opinion of the Internati				
Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2  NL-2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Paul Faux			

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No.   International filing date (day/month/year)   (Earliest) Priority Date (day/month/year)	Applicant's or agent's file reference	FOR FURTHER	
PCT/EP2004/051056  Applicant  VOITH FABRICS PATENT GMBH  This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of		ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
Applicant  VOITH FABRICS PATENT GMBH  This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 16. A copy is being transmitted to the international Search and to a total of 4 sheets.  It is also accompanied by a copy of each prior art document ofted in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).  With regard to any nucleotide and/or amino acid sequence disclosed in the International application, see Box No. I.  Certain claims were found unsearchable (See Box III).  3. Unity of invention is lacking (see Box III).  4. With regard to the \$\frac{1}{2}\$ is approved as submitted by the applicant.  The text has been established by this Authority to read as follows:  5. With regard to the abstract,  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of malling of this International search report, submit comments to this Authority, may, within one month from the date of malling of this International search report, submit comments to this Authority, ease selected by this Authority, because the applicant tailed to suggest a figure.  as selected by this Authority, because the applicant tailed to suggest a figure.  as selected by this Authority, because the infernational search report.	international application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
VOITH FABRICS PATENT GMBH  This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Search Report consists of a total of sheets.    X	PCT/EP2004/051056	08/06/2004	10/06/2003
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 15. A copy is being transmitted to the international Bureau.  This International Search Report consists of a total of	Applicant		10,00,2003
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of			
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It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  Certain claims were found unsearchable (See Box III).  Unity of invention is lacking (see Box III).  With regard to the title,  The text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:  With regard to the abstract,  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.  With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No. 4  as suggested by the applicant.  as selected by this Authority, because this figure better characterizes the invention.	This International Search Report consists	of a total of4 sheets,	
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International application No.

#### INTERNATIONAL SEARCH REPORT

PCT/EP2004/051056

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A composite forming fabric (10) comprising a paper side layer (12) having a paper side surface, a machine side layer (14) having a bottom wear side surface, and a plurality of pairs of first and second intrinsic, interchanging weft binder yarns (16,18,20,...34) for binding together the paper side layer (12) and the machine side layer (14). At least of said plurality of pairs of first and second intrinsic, interchanging weft binder yarns have at least four segments (S1-S4) in the paper side layer (12) within each repeat of the weave pattern in the fabric, and these segments provide an unbroken weft path in the paper side surface. Each of the first and second intrinsic, interchanging weft binder yarns (16,18,20,...34) of each binder pair having at least four segments (S1-S4) in the paper side layer (12) within each repeat of the weave pattern binds to at least one warp yarn (2-20) in the machine side layer (14) vertically underlying one of the segments (S1-S4).

# INTERNATIONAL SEARCH REPORT

International Application No

			rc1/Er2004/051056		
A. CLASS	SIFICATION OF SUBJECT MATTER D21F1/00				
	to International Patent Classification (IPC) or to both national clas	sification and IPC			
	SEARCHED				
IFC /	locumentation searched (classification system followed by classif D03D D21F				
	tion searched other than minimum documentation to the extent the				
	data base consulted during the international search (name of data ternal, WPI Data	a base and, where practical, s	search terms used)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.		
A $\checkmark$	EP 0 794 283 A (SEABROOK RONALD CHAPLIN DEREK G (CA); JOHNSON D	ALF R (CA).	1-18		
	BARRETT) 10 September 1997 (199 the whole document	7-09-10)			
	er documents are listed in the continuation of box C.	Y Patent family men	nbers are listed in annex.		
'A' documen	egories of cited documents :  It defining the general state of the art which is not		ed after the international filing date t in conflict with the application but		
Considered to be of particular relevance  Cited to understand the principle or theory underlying the invention					
L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of considered to involve an inventive step when the document is taken alone					
Or document or particular relevance; the claimed invention  cannot be considered to involve an inventive step when the document is combined with one or more other such desired.					
P' document published prior to the international filing date but later than the priority date claimed ments, such combination being obvious to a person skilled in the art.  *a document member of the same patent family					
Date of the ac	tual completion of the international search		temational search report		
	January 2005	02/02/200	5		
lame and mai	iling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer			
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Gast, D			

# INTERNATIONAL SEARCH REPORT Information on patent family members

International Application No PCT/EP2004/051056

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
EP 0794283	A	10-09-1997	US AU BR EP ID AU CA ZA	5826627 A 709130 B2 9701161 A 0794283 A1 16114 A 1500397 A 2192729 A1 9701829 A	27-10-1998 19-08-1999 15-12-1998 10-09-1997 04-09-1997 11-09-1997 05-09-1997	

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
see form PCT/ISA/220						
				(F	PCT Rule 43 <i>bis</i> .1)	
<u></u>				Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below		
	national application T/EP2004/05105		International filing date (c 08.06.2004	(day/month/year) Priority date (day/month/year) 10.06.2003		
Inter D2	national Patent Clas I F1/00	sification (IPC) or	both national classification	and IPC		
	icant TH FABRICS PA	ATENT GMBH				
1.	This opinion co	ontains indication	ons relating to the follo	owing items:		
	☑ Box No. I	Basis of the op	inion			
	☐ Box No. II	Priority				
	☐ Box No. III	Non-establishn	nent of opinion with rega	rd to novelty, inventive	step and industrial applicability	
	☐ Box No. IV	Lack of unity of	invention			
	☐ Box No. V	Reasoned state applicability; cit	ement under Rule 43 <i>bis.</i> ations and explanations	1(a)(i) with regard to n supporting such state	ovelty, inventive step or industrial	
	☐ Box No. VI	Certain docume		, , , , , , , , , , , , , , , , , , , ,		
	☐ Box No. VII		in the international appli			
	☐ Box No. VIII	Certain observa	ations on the internations	al application		
2.	FURTHER ACTI	ON				
	the applicant cho	oses an Authorit	other than this one to I	Authority ("IPEA"). Ho	sually be considered to be a wever, this does not apply where nosen IPEA has notifed the onal Searching Authority	
	DODINIC TO THE H	date of mailing o	Judellier where appropr	riata with amandment	EA, the applicant is invited to s, before the expiration of three 22 months from the priority date,	
	For further option	s, see Form PC	T/ISA/220.			
3.	For further details	s, see notes to Fo	orm PCT/ISA/220.			
Name	and mailing address	s of the ISA:		Authorized Officer		



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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051056

_							
	Box N	o. I Basis of the opinion					
1.	<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>						
	laı	is opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).					
2.	. With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
b. format of material:							
		in written format					
		in computer readable form					
	c. time	of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional spies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4.	Additio	onal comments:					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-19

No: Claims

Yes: Claims No: Claims 1-19

Industrial applicability (IA)

Yes: Claims

1-19

No: Claims

2. Citations and explanations

see separate sheet

Inventive step (IS)

#### Re Item V.

1 The following document is referred to in this communication:

D1: EP 0 794 283 A

which is considered to represent the most relevant state of the art, discloses all of the features of claim 1 of the current application with the exception of the feature

The subject-matter of independent claim 1 differs from the subject-matter disclosed in document D1 by the features, that:

"at least one of the plurality of pairs of first and second intrinsic, interchanging weft yarns have at least **four** segments in the paper side layer within each repeat of the weave pattern"

2.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)

The problem to be solved by the present invention may be regarded as:

to overcome dimensional stability problems in such fabrics and to provide for a fabric with a plane surface causing less wire marks.

2.2 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

There is no hint in D1 concerning the provision of the features "at least one of the plurality of pairs of first and second intrinsic, interchanging weft yarns have at least **four** segments in the paper side layer within each repeat of the weave pattern". Document D1 discloses weave patterns comprising only two segments within each repeat pattern which are separated by a transitional warp yarn in the sense of the definition according to claim 1 of the application.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051056

Thus the skilled person did not receive an incentive concerning the construction of the multilayer fabric according to the invention from D1

2.3 Claims 2-19 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.